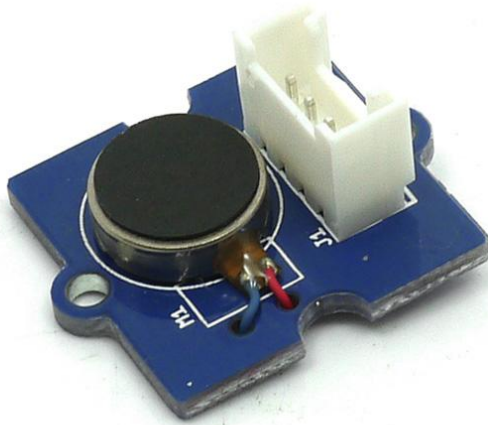


Grove - Vibration Motor

Introduction

3.3V 5.0V Digital



This is a mini vibration motor suitable as a non-audible indicator. When the input is HIGH, the motor will vibrate just like your cell phone on silent mode.

Version Tracker

Revision	Description	Release
v0.9b	Initial public release	May 10, 2011
v1.0	Directly uses an I/O port to drive Vibration Motor	Nov 5, 2011
v1.2	Transistor added, uses bigger current to drive Vibration Motor	July 11, 2013

Features

- Grove compatible
- Non-audible
- Low power consumption
- High reliability



Tip

More details about Grove modules please refer to [Grove System](#)

Specifications

Item	Min	Typ	Max
Operating Voltage	3.0V	5.0V	5.5V
Control Mode	Logic Level (When Logic HIGH, the motor is ON. When LOW, the motor is OFF.)		
Rated speed	9000 rpm		

Platforms Supported

Arduino	Wio	BeagleBone	Raspberry Pi	LinkIt ONE
				

Caution

The platforms mentioned above as supported is/are an indication of the module's hardware or theoretical compatibility. We only provide software library or code examples for Arduino platform in most cases. It is not possible to provide software library / demo code for all possible MCU platforms. Hence, users have to write their own software library.

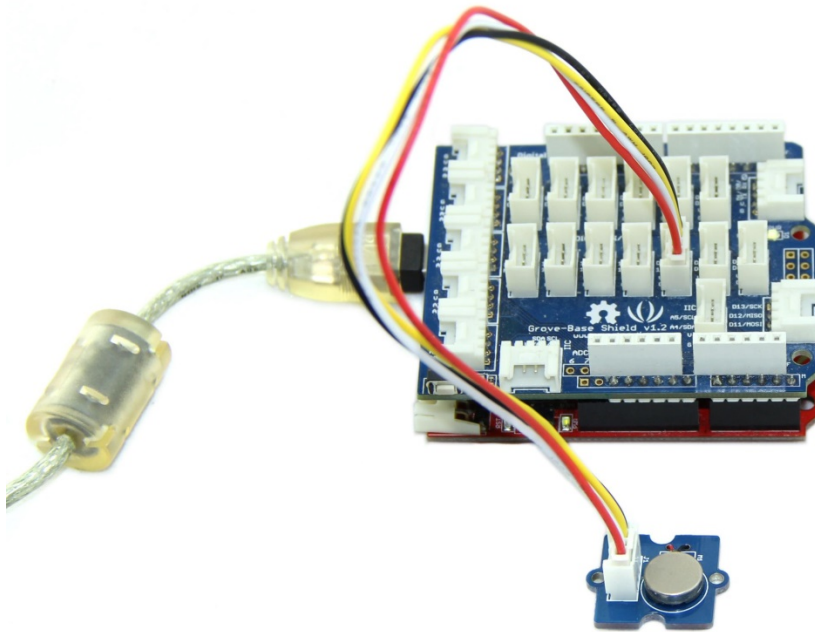
Usage

[With Arduino](#)

To make it vibrate is just as easy as to turn on an LED. Here is an example showing how to turn on the vibration motor.

1. Plug it onto the Digital port 9 of Grove - Base Shield using a Grove cable.

2. Plug the Grove - Base Shield onto Arduino.



3. Connect Arduino to PC by using a USB cable.

4. Copy and paste code below to a new Arduino sketch, and upload it to your Arduino.

Use the demo code shown below:

```
int MoPin = 9;  // vibrator Grove connected to digital pin 9
```

```
void setup() {
```

```
  pinMode( MoPin, OUTPUT );
```

```
}
```

```
void loop() {
```

```
  digitalWrite(MoPin, HIGH);
```

```
  delay(1000);
```

```
  digitalWrite(MoPin, LOW);
```

```
  delay(1000);
```

```
}
```

Now, feel the vibration of your motor!

With Raspberry Pi

1.You should have a Raspberry Pi and a grovepi or grovepi+.

2.You should have completed configuring the development enviroment, otherwise follow [here](#).

3.Connection

- Plug the sensor to grovepi socket D8 by using a grove cable.

4.Navigate to the demos' directory:

```
cd yourpath/GrovePi/Software/Python/
```

- To see the code

```
nano grove_vibration_motor.py # "Ctrl+x" to exit #
```

```
import time
```

```
import grovepi
```

```
# Connect the Grove Vibration Motor to digital port D8
```

```
# SIG,NC,VCC,GND
```

```
vibration_motor = 8
```

```
grovepi.pinMode(vibration_motor,"OUTPUT")
```

```
while True:
```

```
    try:
```

```
        # Start vibrating for 1 second
```

```
        grovepi.digitalWrite(vibration_motor,1)
```

```
        print 'start'
```

```
        time.sleep(1)
```

```
        # Stop vibrating for 1 second, then repeat
```

```
        grovepi.digitalWrite(vibration_motor,0)
```

```
        print 'stop'
```

```
        time.sleep(1)
```

```
except KeyboardInterrupt:
```

```
    grovepi.digitalWrite(vibration_motor,0)
```

```
    break
```

```
except IOError:
```

```
    print "Error"
```

5.Run the demo.

```
sudo python grove_vibration_motor.py
```

Project



Inspired by OVERWATCH, we have made a very cool Wooden Laser Gun toy for fun these day!

The Wooden Laser Gun and the Gun Target are all based on an Arduino board called Seeeduino Lotus. The laser emitter on the Laser Gun is controlled to fire laser pulse to “activate” the Gun Target. And there are 3 light sensors on the Gun Target to detect the laser pulse. It seems very simple right? If you are interested in our project, please make one for yourself or your child! It’s worth to spend one day DIY it as a Xmas present.

Make One NOW!